

SEQUENCE LISTING

RECEIVED

MAY 2 2 2003

TECH CENTER 1600/2900

599

647

<110> Bruce, Wesley B.

<120> A Nitrate-Responsive Root Transcriptional Factor

<130> 1263

<140> US 09/970,624

<141> 2001-10-04

<150> US 60/238,292

<151> 2000-10-05

<160> 3

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<213> Zea mays

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	cegtegteg teggteettg etteegateg gagggeeaca accaeaacet etegete gegtgeaag egegageeag ggteaagaag agagetaget agetatagge eggagat											00					
atg	ggg	agg	gga	aag	atc	gtg	atc	cgc	agg	atc	gat	aac	tcc	acg Thr 15	agc		359 107
														aag Lys		4	155
														atc Ile		5	503
											_			aaa Lys		5	551

gtt ata gat egg tac ggc aag gcc aag gaa gag cag caa gtc gtc gca

Val Ile Asp Arg Tyr Gly Lys Ala Lys Glu Glu Gln Gln Val Val Ala

aat ccc aac tcg gag ctt aag ttt tgg caa agg gag gca gca agc ttg

Asn Pro Asn Ser Glu Leu Lys Phe Trp Gln Arg Glu Ala Ala Ser Leu

70

75

					85					90					95		
	_			ctg Leu 100			_		_				_	_	_		695
				tct Ser													743
		_	_	aca Thr	_	_			_	_	_	_	_	_			791
	_		_	gag Glu			_	_		_	_	_	-				839
		_		aca Thr	-	_			_			_		_		_	887
		_		tta Leu 180			_					_					935
				gag Glu													983
	_	_	_	cct Pro				_		_		-					1031
				cca Pro			-		_			-					1079
tga agaagagtaa aactgccgtc ttatgatgct gaaggaaact atttattgtg 11													1132				
aagagatgat actcagagaa agacatattt gtggcaggga gatttgagat atgaacttat aaatgtaatg caaataattt tcagaccgga atggggtcgt ggaattcaga ggatgattgc tttctaaaaa aaaaaaaaa aaaaaaaa																	
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10

Met Gly Arg Gly Lys Ile Val Ile Arg Arg Ile Asp Asn Ser Thr Ser

Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Ile Phe Lys Lys Ala 20 25 30 Lys Glu Leu Ala Ile Leu Cys Asp Ala Glu Val Gly Leu Val Ile Phe 35 40 45

5

Ser Ser Thr Gly Arg Leu Tyr Glu Tyr Ser Ser Thr Ser Met Lys Ser 55 Val Ile Asp Arg Tyr Gly Lys Ala Lys Glu Glu Gln Gln Val Val Ala Asn Pro Asn Ser Glu Leu Lys Phe Trp Gln Arg Glu Ala Ala Ser Leu 85 90 Arq Gln Gln Leu His Asn Leu Gln Glu Asn Tyr Arq Gln Leu Thr Gly 105 Asp Asp Leu Ser Gly Leu Asn Val Lys Glu Leu Gln Ser Leu Glu Asn 120 Gln Leu Glu Thr Ser Leu Arg Gly Val Arg Ala Lys Lys Asp His Leu 135 140 Leu Ile Asp Glu Ile His Asp Leu Asn Arg Lys Ala Ser Leu Phe His 150 155 Gln Glu Asn Thr Asp Leu Tyr Asn Lys Ile Asn Leu Ile Arg Gln Glu 170 165 Asn Asp Glu Leu His Lys Lys Ile Tyr Glu Thr Glu Gly Pro Ser Gly 180 185 Val Asn Arg Glu Ser Pro Thr Pro Phe Asn Phe Ala Val Val Glu Thr 205 200 Arg Asp Val Pro Val Gln Leu Glu Leu Ser Thr Leu Pro Gln Gln Asn 215 Asn Ile Glu Pro Ser Thr Ala Pro Lys Leu Gly Leu Gln Leu Ile Pro 230 235

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